SWP Water Quality Summary

August 12 to September 9, 2009

Electrical Conductivity: EC increased at all locations from August 12 to September 9, 2009. Concentrations ranged from 213 µS/cm to 522 µS/cm (128mg/L to 313mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). Daily average concentrations varied at all the locations. As of September 9, 2009, the lowest and highest concentrations of 247 µS/cm and 522 µS/cm occurred at Barker Slough and Harvey O. Banks Pumping Plant (HBP), respectively. Concentrations increased slightly this month at HBP from 457 µS/cm to 522 µS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.06 mg/L to 0.25 mg/L. As of September 9, Barker Slough had the lowest concentration of 0.07 mg/L, followed by Devil Canyon with 0.19 mg/L, while the highest concentration of 0.25 mg/L occurred at Vallecitos. Concentrations at HBP had been relatively steady, but increased slightly this month, to an average of 0.23 mg/L, as of September 9, 2009.

Turbidity: Turbidity levels increased at HBP, but decreased at Check 41 and Vallecitos this month. Turbidity levels ranged from 1.7 NTU to 65.1 NTU. On September 9, 2009, the lowest level of 2.0 NTU occurred at Devil Canyon, while the highest level of 65.1 NTU occurred at Barker Slough. HBP mean daily turbidity levels increased from 6.2 NTU on August 12 to 9.2 NTU as of September 9, 2009.

Dissolved Organic Carbon (DOC): Average concentrations were 2.4 mg/L at HBP, 2.2 mg/L at Check 13 and 3.1 mg/L at Edmonston Pumping Plant, as of September 9, 2009.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP were low project-wide, ranging from non-detect to 20 ng/L. Several readings were taken this month at Clifton Court inlet and outlet, HBP, Lake Del Valle Check 7, San Luis Reservoir, Pacheco Pumping Plant, O'Neill Forebay Outlet at Check 13, Check 41, Check 66, Castaic Lake, Silverwood Lake and Lake Perris from August 11 to 31, 2009.

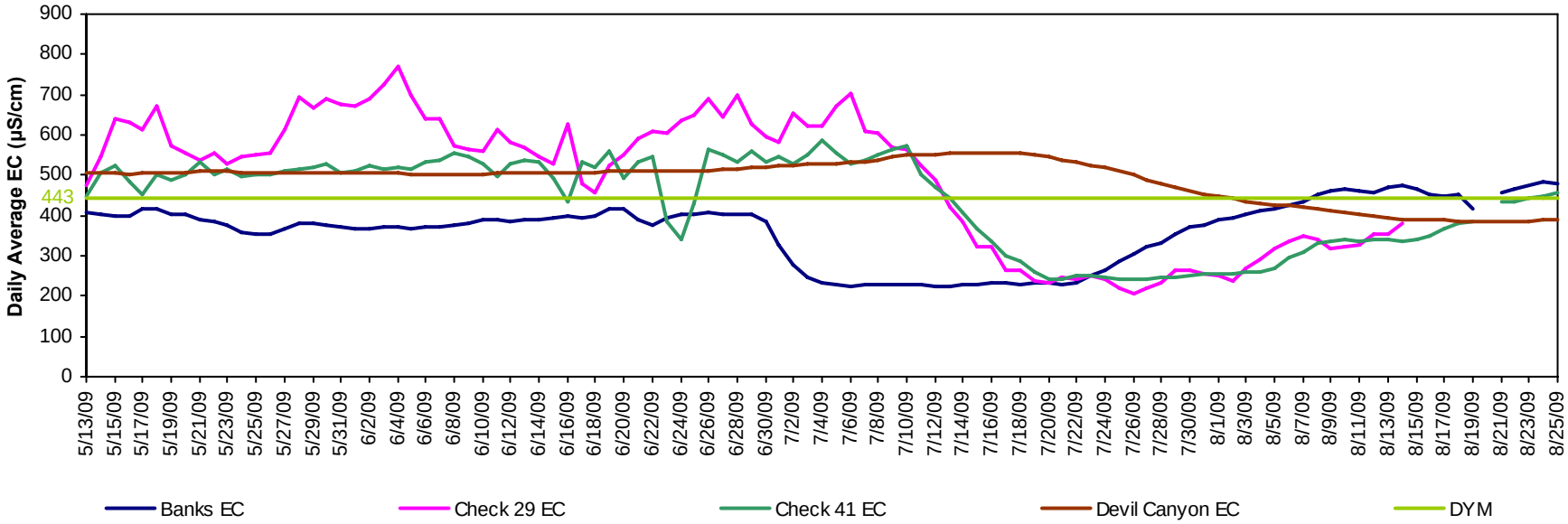
Pump-ins: Pump-ins to the State Water Project (SWP) totaled 7,378-acre feet (AF). The break down of the total volume was:

- Arvin Edison Water Storage District = 2,718 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,877 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 741 AF
- Semitropic Water Storage District = 42 AF.

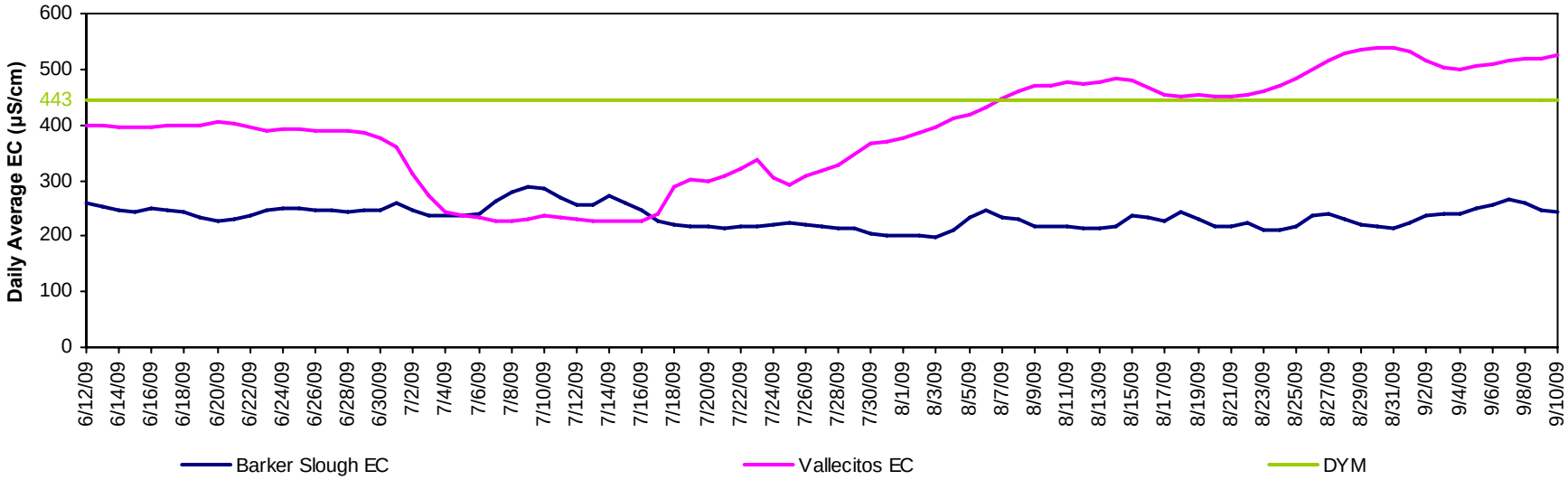
Note: The intent of the monthly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view water quality data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: www.water.ca.gov. Click on the State Water Project tab, and click on the Operations Control link. Look under the Project - Wide Operations header for the "Dispatcher's Daily Water Report".

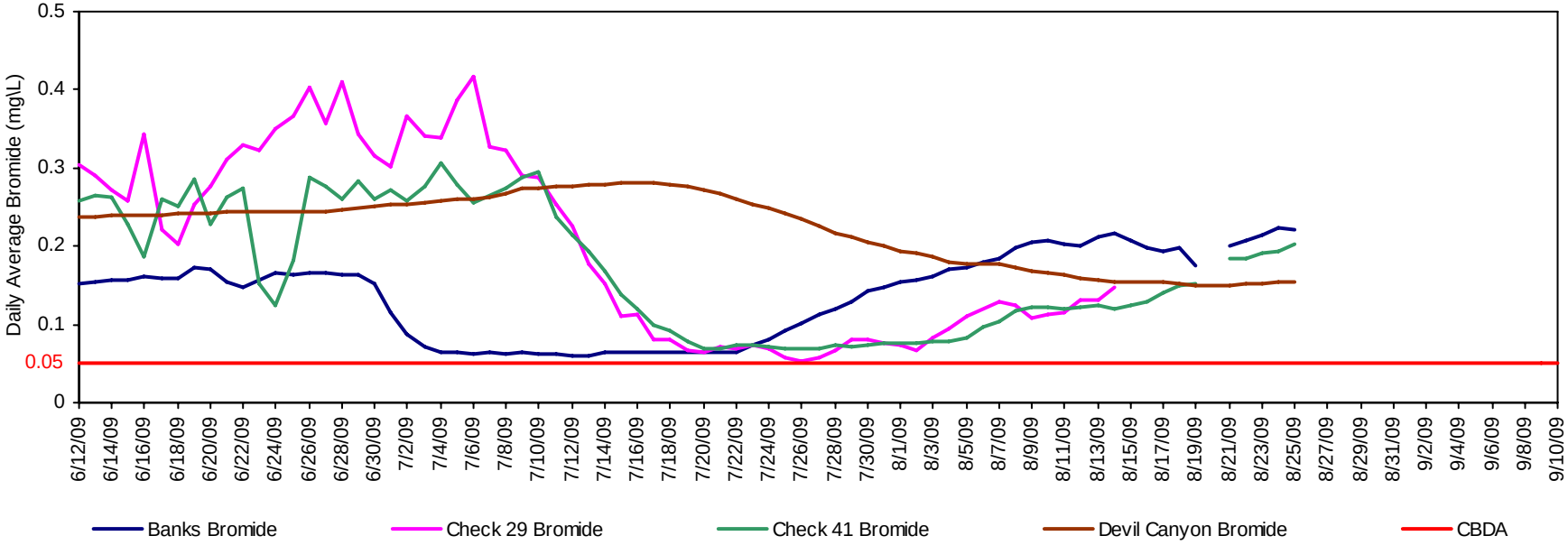
California Aqueduct - Electrical Conductivity



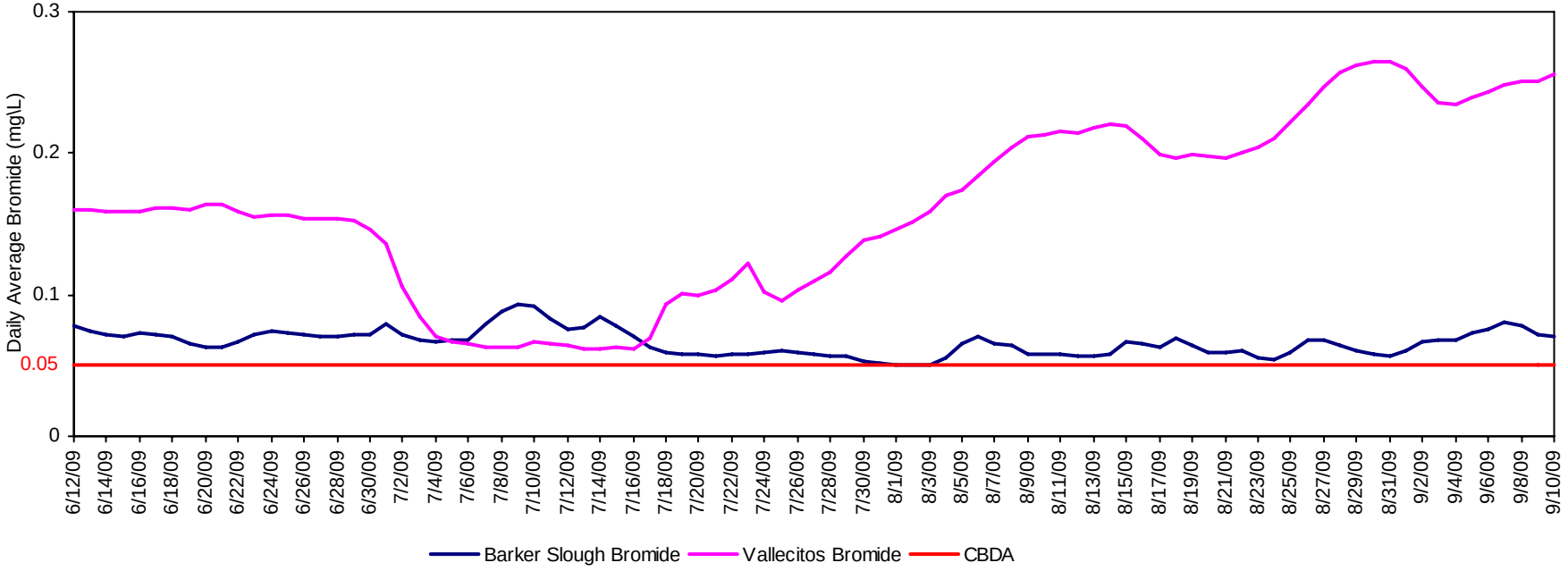
North and South Bay Aqueduct - Electrical Conductivity



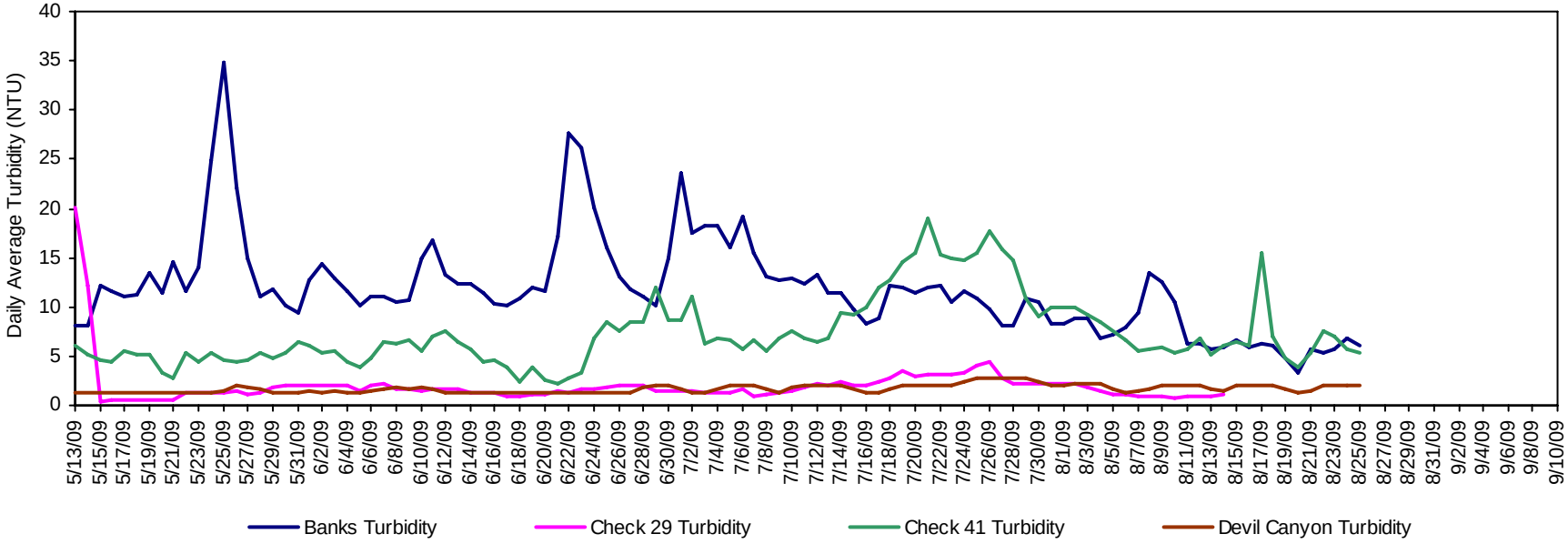
California Aqueduct - Calculated Bromide



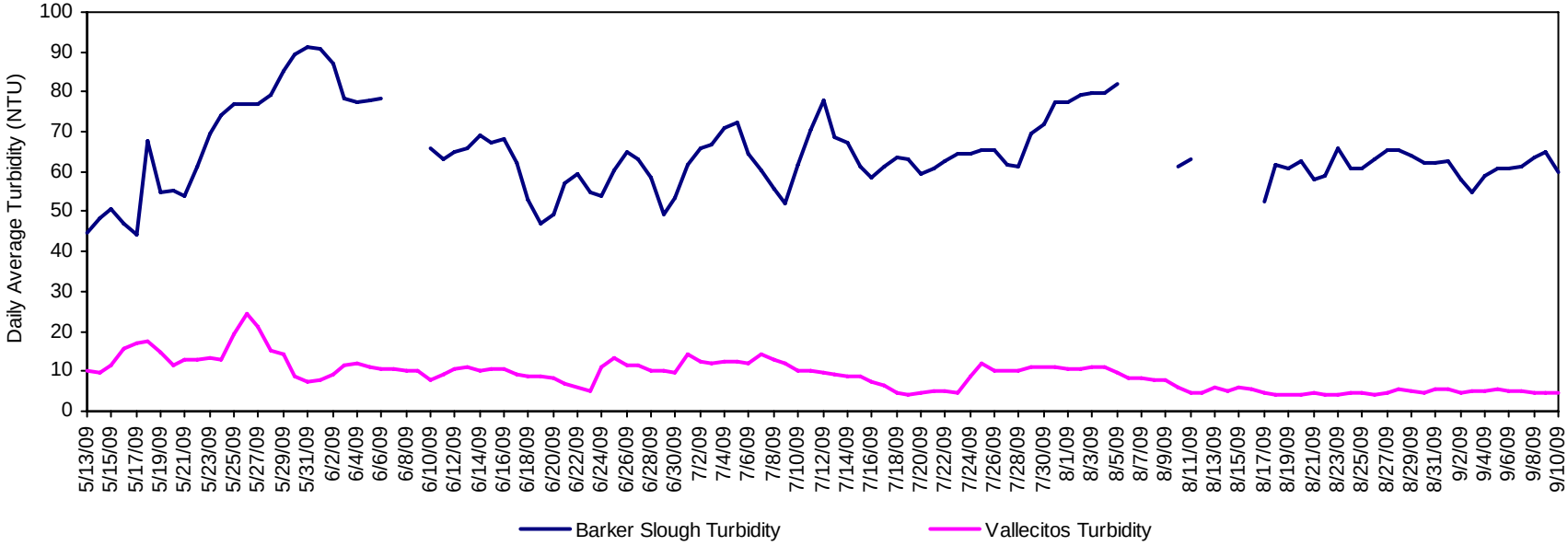
North and South Bay Aqueduct - Calculated Bromide



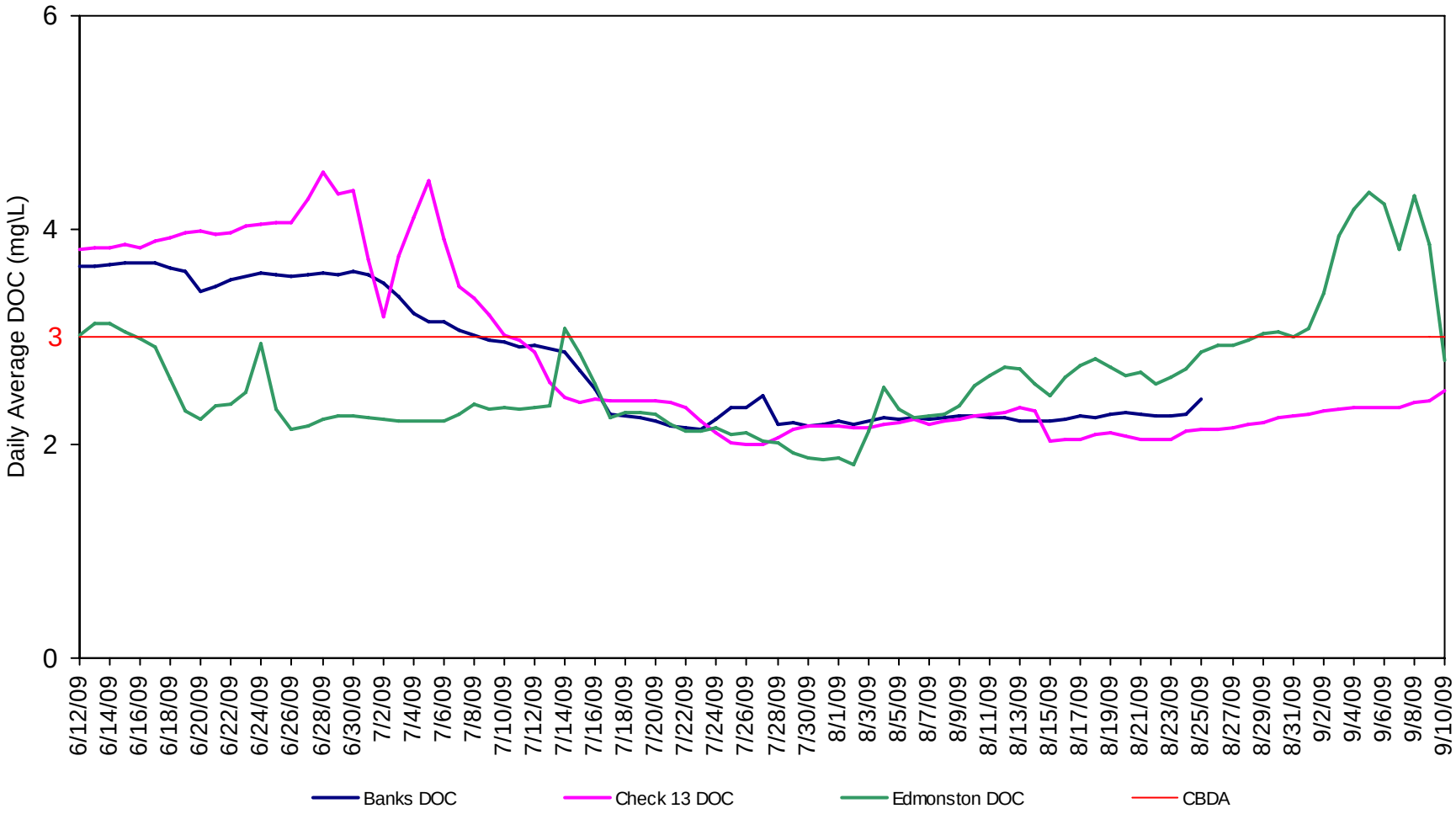
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from August 12 to September 9, 2009

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC (µS/cm)	733**	average	496		380	403	231	493		
		8/12/09	457	***	340	398	213	473		
		9/9/09	522		479	434	247	520		
Bromide (mg/L)	0.05*	average	0.23		0.15	0.16	0.06	0.23		
		8/12/09	0.20		0.12	0.16	0.06	0.21		
		9/9/09	NO DATA	***	0.22	0.19	0.07	0.25		
Turbidity (NTU)		average	6.4		6.1	1.7	61.2	4.9		
		8/12/09	6.2		6.9	2.0	ND	4.8		
		9/9/09	9.2	***	2.3	2.0	65.1	4.6		
DOC (mg/L)	3.0*	average	2.4						2.2	3.1
		8/12/09	2.3						2.3	2.7
		9/9/09	NO DATA						2.4	3.9

Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	8/12/09	3	3	3	2	ND	20	ND	6	5
Geosmin (ng/L)	9/9/09	9	8	6	4	1	3	12	ND	ND

*CBDA Objective
**Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm)
ND = Non-detect
***Datalogger equipment failed but is being replaced.